

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A computer-implemented method for ~~easily programming the interoperability of computer components, input/output devices and the like, said method is implemented as a user interface on a host computer, said interoperating data input and data output, the~~ method comprising:

~~representing input and output functions of the input and output devices as graphical input and output controls, respectively;~~

~~selecting an~~ representing an audio input with a transmit control;

~~selecting at least one~~ representing a visual output with a receive control;

~~linking the selected~~ at least one transmit control to the selected ~~at least one receive control without determining if the type of audio input represented by the transmit control is compatible with the type of visual output represented by the receive control; and~~

~~controlling causing the visual output functions of the output devices by manipulating to change in real-time by changing the audio input device corresponding to~~ represented by the transmit control that is linked to the at least one receive control that corresponds to at least one input device.

2. (New) The method of Claim 1, wherein in the visual output comprises animation.

3. (New) The method of Claim 1, wherein the audio input is sound.

4. (New) The method of Claim 1, wherein the audio input is voice.

5. (New) The method of Claim 1, wherein representing the audio input with a transmit control comprises:

creating a translation calculation for translating the audio input into normalized data; and
associating a transmit control with the translation calculation.

6. (New) The method of Claim 1, wherein representing the visual output with a receive control comprises:

creating a translation calculation for translating the normalized data into visual output;
and

associating a receive control with the translation calculation.

7. (New) The method of Claim 1, wherein linking at least one transmit control to at least one receive control comprises linking at least one transmit control to a plurality of receive controls.

8. (New) The method of Claim 1, wherein linking at least one transmit control to at least one receive control comprises linking a plurality of transmit controls to at least one receive control.

9. (New) An animation program embodied on a computer-readable medium, wherein the output of said animation program is dynamically generated in real-time by a method comprising:

representing input to said animation program with at least one transmit control;

representing the output of said animation program with at least one receive control;

defining a relationship between said at least one transmit control and said at least one receive control without determining if the type of data input to said animation program is compatible with the type of output from said animation program; and

dynamically generating the output of said animation program in real-time by changing the input to said animation program represented by said at least one transmit control and linked to said at least one receive control representing the output of said animation program.

10. (New) The animation program of Claim 9, wherein the input to said animation program comprises audio input.

11. (New) The animation program of Claim 9, wherein the input to said animation program comprises motion input.

12. (New) The animation program of Claim 9, wherein the input to said animation program comprises musical instrument digital interface input.

13. (New) The animation program of Claim 9, wherein linking at least one transmit control to at least one receive control comprises linking at least one transmit control to a plurality of receive controls.

14. (New) The animation program of Claim 9, wherein linking at least one transmit control to at least one receive control comprises linking a plurality of transmit controls to at least one receive control.

15. (New) A computer-implemented method for changing an animated image in response to input data from an input device, the method comprising:

receiving input data from the input device;

translating the input data from the input device into normalized data;

translating the normalized data into output data associated with the animated image, wherein translating the input data into normalized data and translating the normalized data into output data is based on a relationship defined between the input data and the output data, and wherein said relationship is defined without determining if the type of input data is compatible with the type of output data; and

causing the animated image to change in real-time in reaction to the input data that is received from the input device and that is translated into the output data associated with the animated image.

16. (New) The method of Claim 15, wherein translating the input data from the input device into normalized data comprises:

defining a raw input data range for the input data;

defining a normalized input data range for the input data; and

converting the input data received from the input device into normalized input data within the normalized input data range based on the raw input data range.

17. (New) The method of Claim 16, wherein translating the normalized data into output data comprises:

defining a raw output data range for the output data;
defining a normalized output data range for the output data; and
converting the normalized input data into output data within the raw output data range based on the normalized output data range.

18. (New) The method of Claim 17, further comprising:
defining a relationship between the normalized input data and the output data; and
setting the normalized output data based on the normalized input data and the defined relationship between the normalized input data and the output data.

19. (New) The method of Claim 18, further comprising:
defining a relationship between the normalized input data and the normalized output data;
and
setting the normalized output data based on the normalized input data and the defined relationship between the normalized input data and the output data.

20. (New) The method of Claim 15, wherein the input device comprises an audio device.

21. (New) The method of Claim 15, wherein the input device comprises a positioning device.

22. (New) The method of Claim 15, further comprising receiving input data from a plurality of input devices.